

State Water Resources Control Board (SWRCB)**Letter No. 018****Subject:** CAGBTEX: Analysis for TPH and BTEX by 8021B**Date:** April 26, 2002**Overview:**

Within the LUST Cleanup program, many soil and water samples are analyzed for VOCs volatiles and TPH-Gasoline by USEPA Method 8021B. As required by AB2886, electronic EDF data for these analyses are reported to the SWRCB GeoTracker system. In some specific cases, samples are analyzed only for TPH and BTEX compounds. USEPA Method 8260B is recommended for analysis of Tert-butyl Alcohol.

For data comparability purposes the SWRCB recommends the following minimal analyte list, spiking compounds, surrogate compounds and reporting limits for this method. The SWRCB does not recommend routine monitoring of monitoring ground water wells focus exclusively on TPH and BTEX compounds.

Special Conditions:

This applies to all sample matrices.

Areas of Impact:

Field(s): *ANMCODE*, *PARLABEL*

Entry: *ANMCODE* = "CAGBTEX" (CA LUFT Method for Volatiles by GC/GRO [SW8021B/CATPH-G])

PARLABEL = various; refer to list below

Policy:**a) Quality Control Requirements**

Preparation/analytical batch should include:

- one laboratory method blank
- one matrix spike
- one matrix spike duplicate or one matrix duplicate if target compounds are present
- one blank spike

Control limits for the blank spike/blank spike duplicates are 70% - 130% per SW-846 for aromatics.

b) Analytes

“CAGBTEX” Spiking Compounds¹

PARLABEL	Description
BZ	Benzene
BZME	Toluene
PHC	Total Petroleum Hydrocarbons (TPH)

¹ From Region 4

“CAGBTEX” Analytes and Detection Limits

PARLABEL	Description	Order	Surr.	Water (ug/L)			Soil (ug/kg)	
				MDL	MRL	MCL	MDL	MRL
TPHC6C12	TPH Volatile Range Organics (C6-C12)	1			100			500
BZ	Benzene	2		0.3	0.5	1.0	5	1.0
BZME	Toluene	3		0.3	1		5	2
EBZ	Ethylbenzene	4			1			2
XYLENES	Xylenes	5		0.6	1		15	2
DCBTA14	1,4-Dichlorobutane ¹		4					
BRCLBZ4	4-Bromochlorobenzene ¹		4					

MDL – Method Detection Limit (from *Leaking Underground Fuel Tank (LUFT) Field Manual, October 1989*)

MRL – Method Reporting Limit (from Region 4)

MCL – Maximum Contamination Limit (from DHS California Drinking Water Quality Database 01/08/2002)

¹ SW-846 recommended surrogate